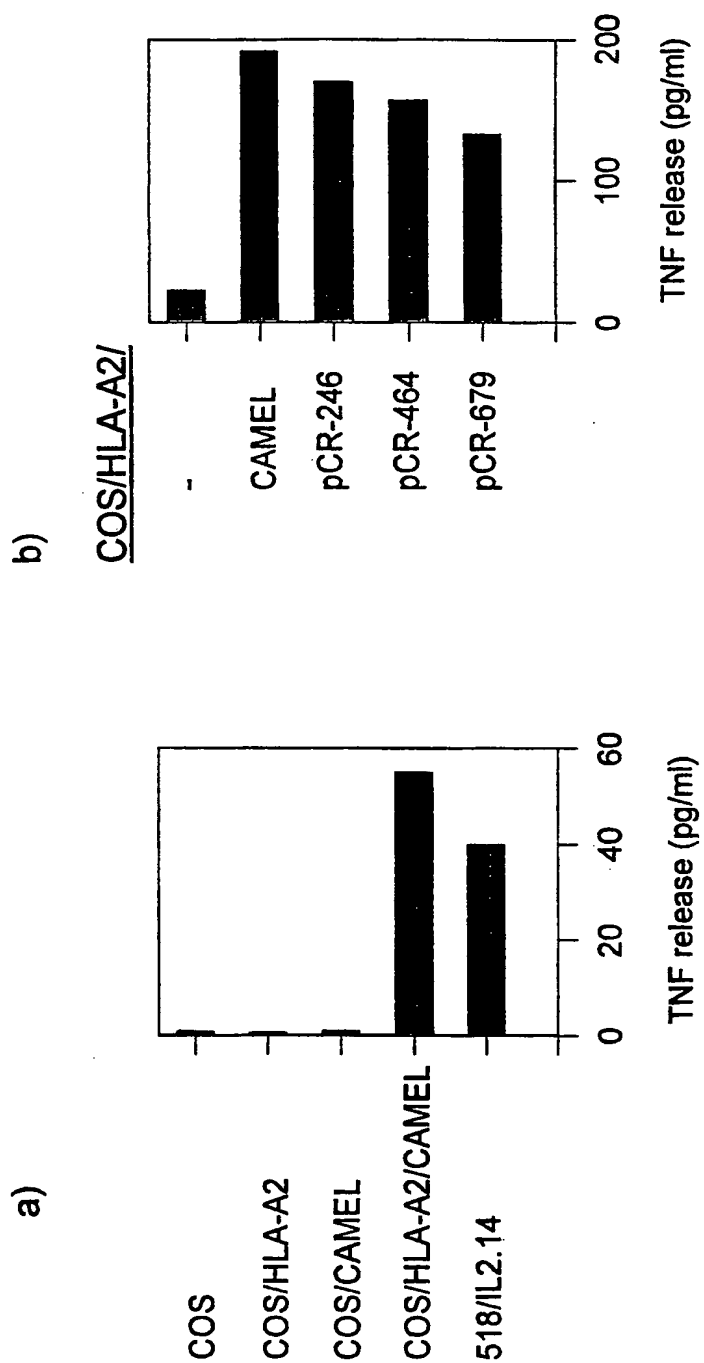


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Fig. 1



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Fig. 2A

FIGURE 2 A)

CAMEL  
LAGE-1<sup>S</sup> 48  
LAGE-1<sup>L</sup> 50  
NY-ESO-1 48

-----  
--ATCCTCGTGGCCCTGACCTTCTCTGTAGAGCCGGGCAGAGGCTCCG  
GCATCCTCGTGGCCCTGACCTTCTCTGTAGAGCCGGGCAGAGGCTCCG  
--ATCCTCGTGGCCCTGACCTTCTCTGTAGAGCCGGGCAGAGGCTCCG

CAMEL 14  
LAGE-1<sup>S</sup> 98  
LAGE-1<sup>L</sup> 100  
NY-ESO-1 98

-----CGACGGGCGATGCT  
GAGCC**ATG**CAGGCCGAAGCCAGGCCACAGGGGTTTCGACGGCGATGCT  
GAGCC**ATG**CAGGCCGAAGCCAGGCCACAGGGGTTTCGACGGCGATGCT  
GAGCC**ATG**CAGGCCGAAGCCAGGCCACAGGGGTTTCGACGGCGATGCT

\*\*\*\*\*

CAMEL 64  
LAGE-1<sup>S</sup> 148  
LAGE-1<sup>L</sup> 150  
NY-ESO-1 148

GATGGCCCAGGAGGCCCTGGCATTCCTGATGGCCCAGGGGCAATGCTGG  
GATGGCCCAGGAGGCCCTGGCATTCCTGATGGCCCAGGGGCAATGCTGG  
GATGGCCCAGGAGGCCCTGGCATTCCTGATGGCCCAGGGGCAATGCTGG  
GATGGCCCAGGAGGCCCTGGCATTCCTGATGGCCCAGGGGCAATGCTGG

\*\*\*\*\*

CAMEL 114  
LAGE-1<sup>S</sup> 198  
LAGE-1<sup>L</sup> 200  
LAGE-1<sup>L</sup> 198

CGGCCCAGGAGGCGGGTGCCACGGGCGCAGAGTCCCCGGGCGCAG  
CGGCCCAGGAGGCGGGTGCCACGGGCGCAGAGTCCCCGGGCGCAG  
CGGCCCAGGAGGCGGGTGCCACGGGCGCAGAGTCCCCGGGCGCAG  
CGGCCCAGGAGGCGGGTGCCACGGGCGCAGAGTCCCCGGGCGCAG

\*\*\*\*\*

Fig. 2A continued

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

164  
248  
250  
248

GGCAGCAAGGCCCTCGGGGCCGAGAGGAGGCCGCCCGGGGTCCGCAT  
GGCAGCAAGGCCCTCGGGGCCGAGAGGAGGCCGCCCGGGGTCCGCAT  
GGCAGCAAGGCCCTCGGGGCCGAGAGGAGGCCGCCCGGGGTCCGCAT  
GGCAGCAAGGCCCTCGGGGCCGAGAGGAGGCCGCCCGGGGTCCGCAT  
\*\*\*\*\*

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

214  
298  
300  
298

GGGGTGCCGCTTCTGCGCAGGATGGAAGGTGCCCTGCGGGCCAGGAG  
GGGGTGCCGCTTCTGCGCAGGATGGAAGGTGCCCTGCGGGCCAGGAG  
GGGGTGCCGCTTCTGCGCAGGATGGAAGGTGCCCTGCGGGCCAGGAG  
GGGGTGCCGCTTCTGCGCAGGATGGAAGGTGCCCTGCGGGCCAGGAG  
\*\*\*\*\*

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

264  
348  
350  
348

GCCGGACAGCCGCTGCTTCAGTTGCACATCACGATGCCCTTCTCGTCGC  
GCCGGACAGCCGCTGCTTCAGTTGCACATCACGATGCCCTTCTCGTCGC  
GCCGGACAGCCGCTGCTTCAGTTGCACATCACGATGCCCTTCTCGTCGC  
GCCGGAGAGCCGCTGCTTGAGTTCTACCTCGCCATGCCCTTTCGCGACAC  
\*\*\*\*\*

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

314  
398  
400  
398

CCATGGAAGCGGAGCTGGTCCGAGGATCCTGTCCCGGGATGCCGCACCT  
CCATGGAAGCGGAGCTGGTCCGAGGATCCTGTCCCGGGATGCCGCACCT  
CCATGGAAGCGGAGCTGGTCCGAGGATCCTGTCCCGGGATGCCGCACCT  
CCATGGAAGCGGAGCTGGCCCGCAGGAGCCTGGCCCGAGGATGCCCGACCG  
\*\*\*\*\*

**Fig. 2A continued**

CAMEL	ACTGTTTAT	---	---	---	373
LAGE-1 <sup>s</sup>	ACTGTTTAT	---	---	---	457
LAGE-1 <sup>L</sup>	ACTGTTTAT	GTCA	GTTCGGGAC	CAGGACAGGCGCTGGCGGATGA	500
NY-ESO-1	ACTGACTAT	---	---	---	457

\*\*\*. \*\*\*

CAMEL	-----	373
LAGE-1 <sup>s</sup>	-----	457
LAGE-1 <sup>l</sup>	GGTGGTGGGTGGGCTGGGATCCGCCTCCCGAGGGCAGAAAGCT	550
NY-ESO-1	-----	457

CAMEL	-----	373
LLAGE-1 <sup>s</sup>	-----	457
LLAGE-1 <sup>L</sup>	AGATCTCAGAACCCAAACACAAAGGTCAGAACAGAGACCTGGTAC	600
NY-ESO-1	-----	457

Fig. 2A continued

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

373  
457  
650  
457

-----  
-----  
ACCAGCCCGCCACCCGAGGAGCCAGGAGATGGGTGCAGAGGTG  
-----  
-----

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

385  
469  
700  
469

-----  
-----  
TCGCCTTAATGTGATGTTCTCTGCCCTCACATTAGCCGACTGACTGC  
-----  
-----

CCGACTGACTGC  
-----  
CCGACTGACTGC  
-----  
CCGACTGACTGC  
-----  
\*\*\*\*\*

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

435  
519  
750  
519

TGCAGACCACCGCCAACTGCAGCTCTCCATCAGCTCCTGTCTCCAGCAGC  
TGCAGACCACCGCCAACTGCAGCTCTCCATCAGCTCCTGTCTCCAGCAGC  
TGCAGACCACCGCCAACTGCAGCTCTCCATCAGCTCCTGTCTCCAGCAGC  
TGCAGACCACCGCCAACTGCAGCTCTCCATCAGCTCCTGTCTCCAGCAGC  
\*\*\*\*\*

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

485  
569  
800  
569

TTTCCCTGTTGATGTGGATCACGCAGTGCTTTCTGCCCGTGTTTGTGGCT  
TTTCCCTGTTGATGTGGATCACGCAGTGCTTTCTGCCCGTGTTTGTGGCT  
TTTCCCTGTTGATGTGGATCACGCAGTGCTTTCTGCCCGTGTTTGTGGCT  
TTTCCCTGTTGATGTGGATCACGCAGTGCTTTCTGCCCGTGTTTGTGGCT  
\*\*\*\*\*

Fig. 2A continued

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

CAGGCTCCCTCAGGCGAGAGCGGCTAAGCCAGCCCTGGCGCCCTTCCTA 535  
CAGGCTCCCTCAGGCGAGAGCGGCTAAGCCAGCCCTGGCGCCCTTCCTA 619  
CAGGCTCCCTCAGGCGAGAGCGGCTAAGCCAGCCCTGGCGCCCTTCCTA 850  
CAGCCTCCCTCAGGCGAGAGCGGCTAAGCCAGCCCTGGCGCCCTTCCTA 519  
\*\*\* \*\*\*\*\*

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

GGTCATGCCTCCTCCCTAGGGAATGGTCCAGCACGAGTGGCCAGTTCA 585  
GGTCATGCCTCCTCCCTAGGGAATGGTCCAGCACGAGTGGCCAGTTCA 669  
GGTCATGCCTCCTCCCTAGGGAATGGTCCAGCACGAGTGGCCAGTTCA 900  
GGTCATGCCTCCTCCCTAGGGAATGGTCCAGCACGAGTGGCCAGTTCA 669  
\*\*\*\*\*

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

TTGTGGGGCCTGATTGTTGTCGCTGGAGGAGGACGGCTTACATGTTG 635  
TTGTGGGGCCTGATTGTTGTCGCTGGAGGAGGACGGCTTACATGTTG 719  
TTGTGGGGCCTGATTGTTGTCGCTGGAGGAGGACGGCTTACATGTTG 950  
TTGTGGGGCCTGATTGTTGTCGCTGGAGGAGGACGGCTTACATGTTG 719  
\*\*\*\*\*

CAMEL  
LAGE-1<sup>s</sup>  
LAGE-1<sup>L</sup>  
NY-ESO-1

TTTCTGTAGAAAATAAAGCTGAGCTACGAAAAAATAAAAAA 679  
TTTCTGTAGAAAATAAAGCTGAGCTACGAAAAAATAAAAAA 767  
TTTCTGTAGAAAATAAAGCTGAGCTACGAAAAAATAAAAAA 993  
TTTCTGTAGAAAATAAAGCTGAGCTACGAAAAAATAAAAAA 752  
\*\*\*\*\*

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Fig. 2B

## Protein Translations

## ORF3

LAGE-1 <sup>S</sup>	MQAEGQGTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGAT	40
LAGE-1 <sup>L</sup>	MQAEGQGTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGAT	40
NY-ESO-1	MQAEG <b>R</b> GTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGAT	40
LAGE-1 <sup>S</sup>	GGRGPRGAGAAARASGPRGGAPRGPHGGAASAQDGRCPCGA	80
LAGE-1 <sup>L</sup>	GGRGPRGAGAAARASGPRGGAPRGPHGGAASAQDGRCPCGA	80
NY-ESO-1	GGRGPRGAGAAARASGPGGGAPRGPHGGAAS <b>GLNGCC</b> RCCGA	80
LAGE-1 <sup>S</sup>	RRPDSRLLQLHITMPFSSPMEAEELVRRILSRDAAPLPRPG	120
LAGE-1 <sup>L</sup>	RRPDSRLLQLHITMPFSSPMEAEELVRRILSRDAAPLPRPG	120
NY-ESO-1	<b>RG</b> PESRLL <b>EFF</b> LAMPF <b>AT</b> PMPEAEEL <b>ARRSLAQDAPPL</b> VPVG	120
LAGE-1 <sup>S</sup>	AVLKDFTVSGNLLFIRLTAADHRQLQLSISSClQQLSLLM	160
LAGE-1 <sup>L</sup>	AVLKDFTVSGNLLF <b>MSVRDQDREGAGRM</b> VV <b>GWGL</b> GSASP	160
NY-ESO-1	<b>VLLKE</b> FTVSGN <b>ILT</b> IRLTAADHRQLQLSISSClQQLSLLM	160

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Fig. 2B continued

LAGE-1<sup>S</sup> WITQCFLPVFLAQAPSGQRR 180  
 LAGE-1<sup>L</sup> **EGQKARDLRTPKHKVSEQRPGTGPPEGAQGDGCRGVA** 200  
 NY-ESO-1 WITQCFLPVFLAQPPSGQRR 180

LAGE-1<sup>S</sup> 180 aa, 18.2 kD  
 LAGE-1<sup>L</sup> 210 aa, 21.1 kD  
 NY-ESO-1 180 aa, 18.2 kD

**FNVMFSAPHI****ORF1**

LAGE-1<sup>S</sup> MLMAQEALAFMLAQGAMLAAQERRVPRAAEVPGAQQQGP 40  
 LAGE-1<sup>L</sup> MLMAQEALAFMLAQGAMLAAQERRVPRAAEVPGAQQQGP 40  
 NY-ESO-1 MLMAQEALAFMLAQGAMLAAQERRVPRAAEVPGAQQQGP 40

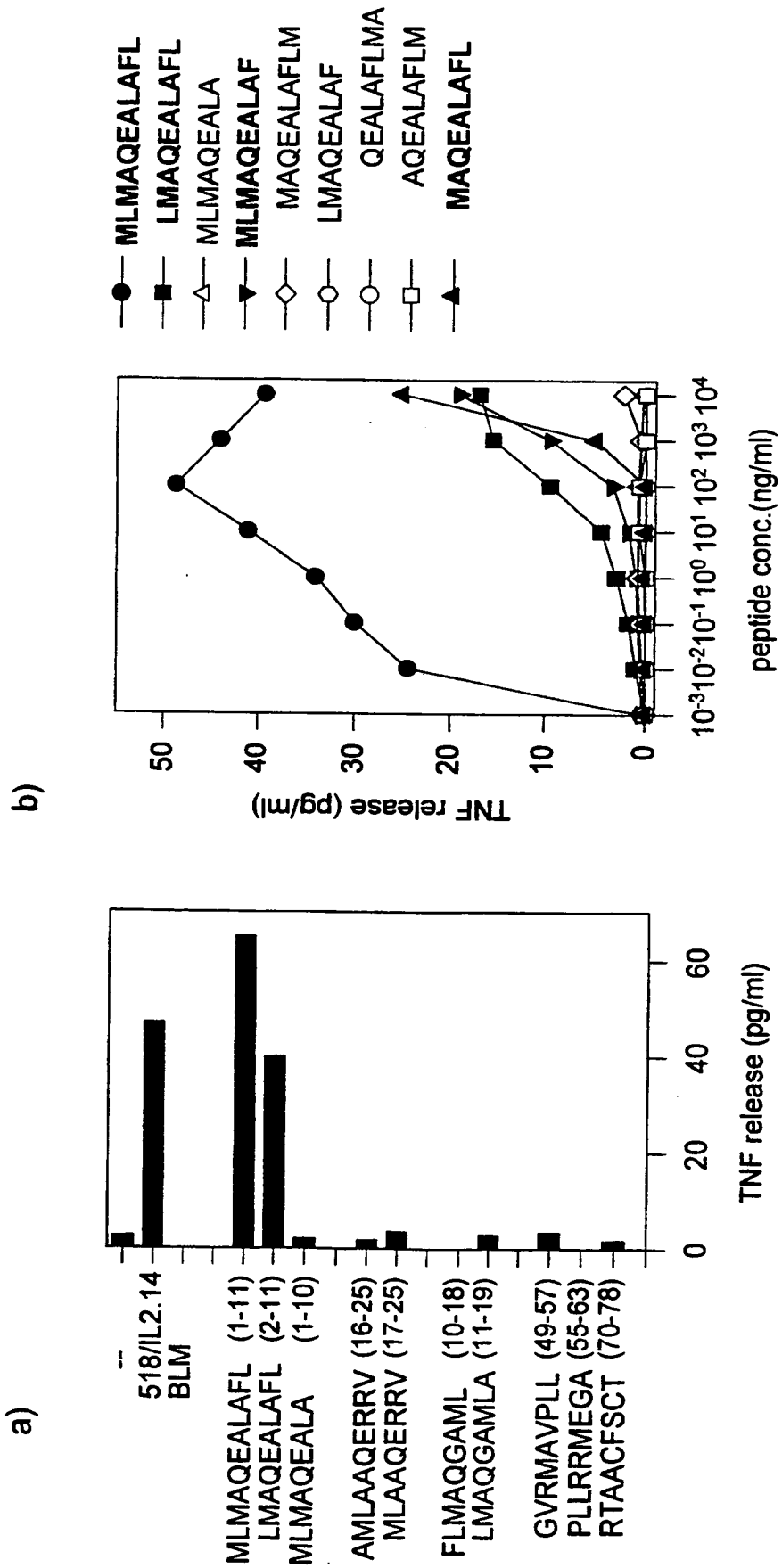
LAGE-1<sup>S</sup> RGREEAPRGVRMAVPLLRMEGAPAGPGGRTAACFSCTSR 80  
 LAGE-1<sup>L</sup> RGREEAPRGVRMAVPLLRMEGAPAGPGGRTAACFSCTSR 80  
 NY-ESO-1 RGREEAPRGVRMA**ARLQG** 58

LAGE-1<sup>S</sup> CLSRRPWKRSWSAGSCPGMPHLSPDQGRF 109 aa, 11.7 kD  
 LAGE-1<sup>L</sup> CLSRRPWKRSWSAGSCPGMPHLSPDQGRF 109 aa, 11.7 kD  
 NY-ESO-1 58 aa, 6.2 kD



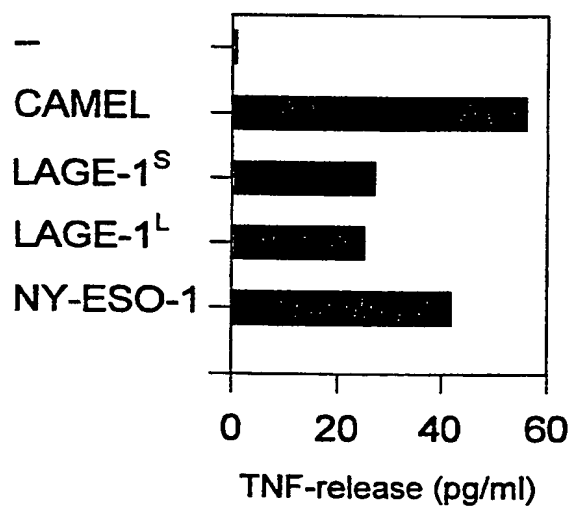
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Fig. 3



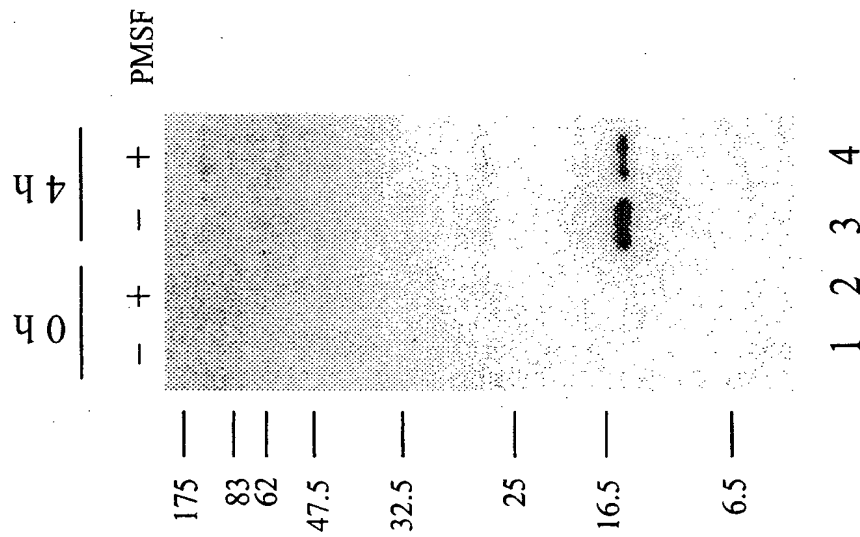
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Fig. 4

COS/HLA-A2/

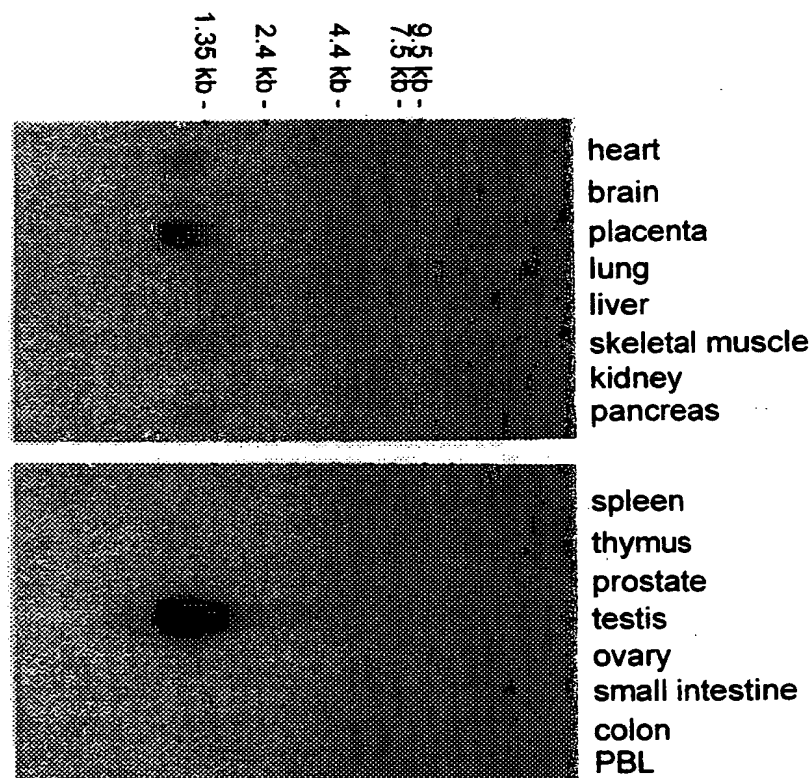
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Fig. 5



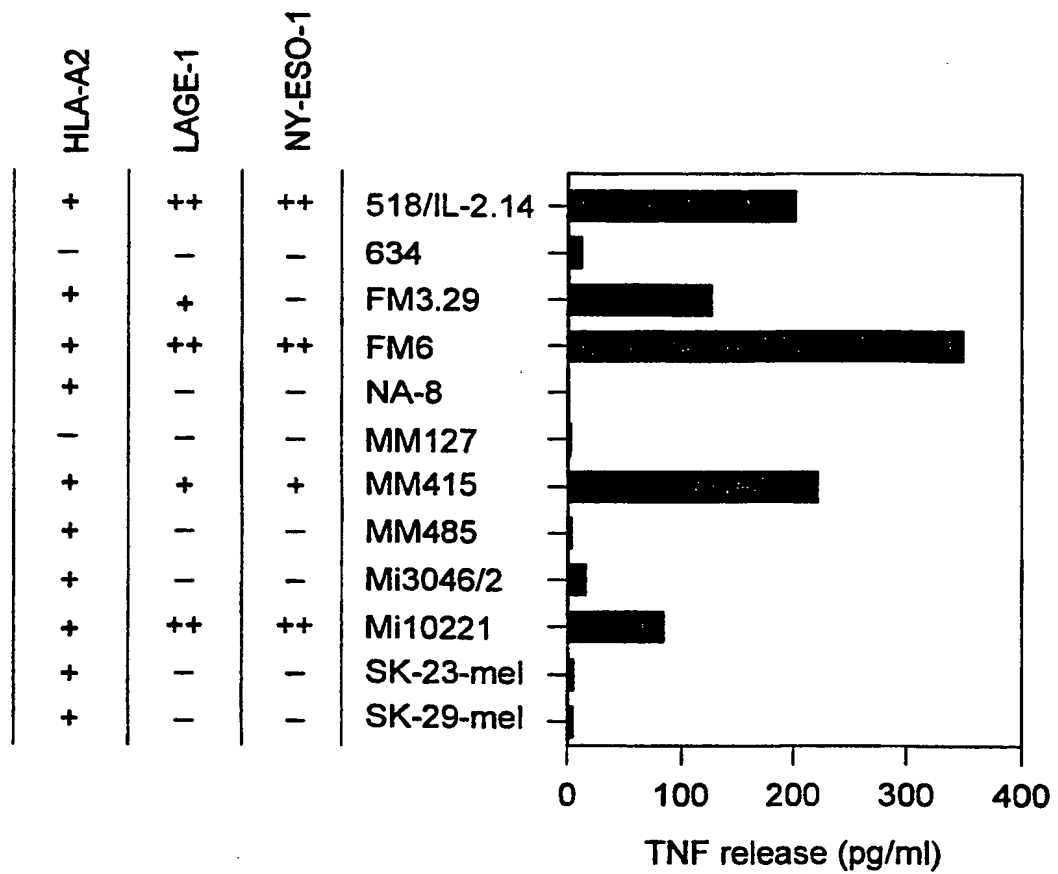
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Fig. 6A



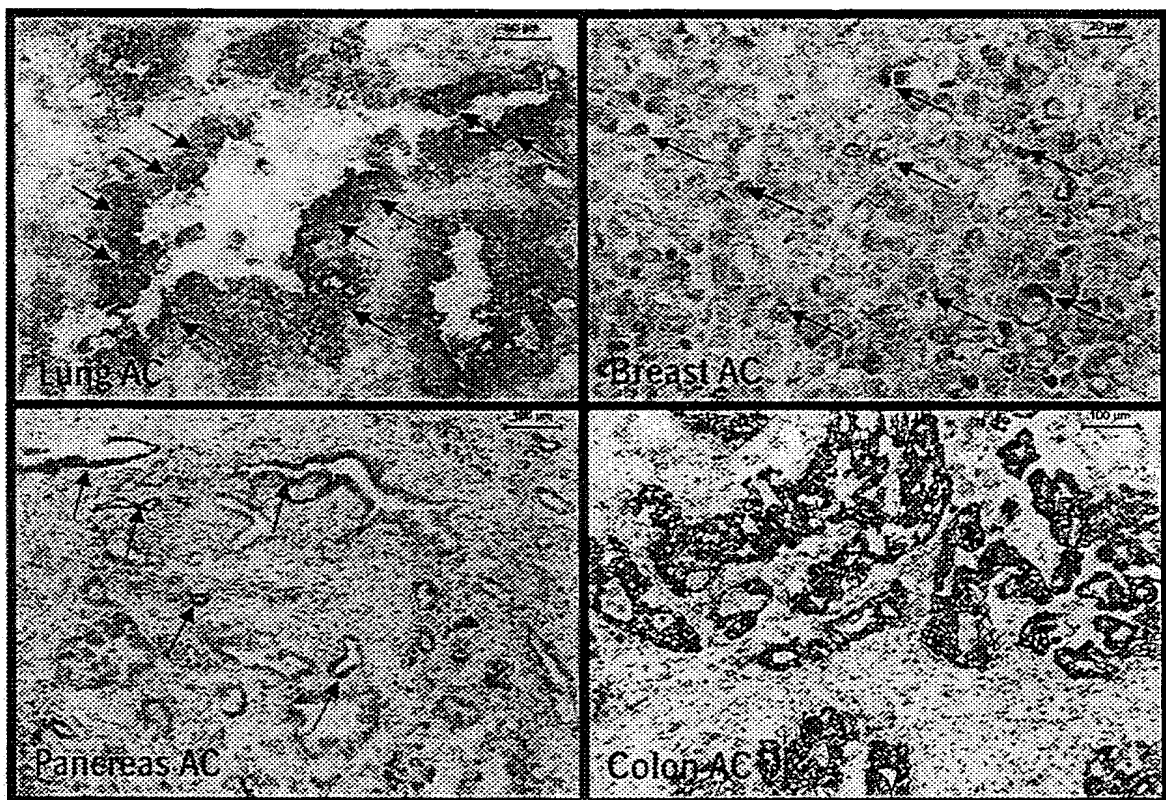
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Fig. 6B



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Fig. 7



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Fig. 8

